

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

AF  
CfW

Applicant: Kelly E. Dillard et al.

Title: COPY PROTECTION FOR DATABASE UPDATES TRANSMITTED VIA THE INTERNET

Docket No.: 462-96-004 (256.180US1)

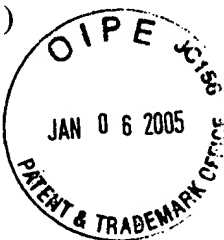
Filed: May 22, 1997

Examiner: Jeffrey D. Carlson

Serial No.: 08/861,989

Due Date: January 3, 2005

Group Art Unit: 3622



**Mail Stop Appeal Brief--Patents**

Commissioner for Patents

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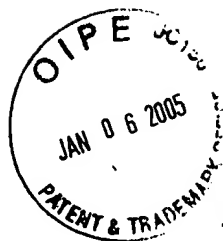
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SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

(GENERAL)



S/N 08/861,989

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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REPLY BRIEF UNDER 37 C.F.R. § 41.41

Mail Stop Appeal Brief-Patents  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

This Reply Brief is presented in response to the Examiner's Answer dated as mailed November 3, 2004. Appellants respectfully request acknowledgment of receipt and entry of this Reply Brief in the above-identified patent application for review by the United States Patent and Trademark Office Board of Patent Appeals and Interferences.

The Examiner is hereby authorized to charge any necessary fees to Deposit Account No. 19-0473.

### REPLY

The Examiner's Answer makes several arguments to which appellants now reply.

The Examiner states on page 3 of the Examiner's Answer, that "Behr et al., like applicant, recognizes the same limitations of prior art systems in which GPS/navigation units that require updates of more recent navigation/map data have to rely on distribution of floppy disk or CDs col. 2 lines 4-24." Applicant wishes to point out that the context in which this problem is recognized is quite different. Behr et al. recognize problems with costs and delays in such a method of updating databases. However, there is neither a suggestion to encrypt the information nor recognition of the problem discussed by Applicant, that an authorized update could be applied to an unauthorized device. Because such limited information, only information around a single route, is being transmitted by the system of Behr et al. there is no need for encryption. Hence, there is no motivation to combine Behr et al. with Hornbuckle.

Examiner's Answer goes on to state that "It would have been obvious to one of ordinary skill at the time of the invention to have provided such encryption techniques with the GPS remote hardware devices of Behr et al., so that the data transmission over Behr et al's non-secure facilities (telephone system, RF, etc) were secured and that Behr et al's desire for sending software only to paying customers was accomplished in a way that prevents unauthorized, non-paying customers from accessing such data." This argument is unsupported. There is no proof of Behr et al's desire for sending software only to paying customers. If anything, Behr et al. knew that the information (not software) was not useful to anyone other than the requestor of the information. At best, Behr et al. simply wanted to make sure it had billing information so it could send a bill to the user.

It should also be noted that the remote hardware devices of Behr et al. were memory constricted. All of the discussion in Behr et al. of downloading up-to-date information is in the context of allowing a "mobile unit to operate with limited or no database storage..." Col. 22, lines 23-24. Further, information is downloaded to the mobile unit "for those portions of the route which are not adequately covered by maps available on-board the remote unit." Col. 21, line 67 to Col. 22, line 2. Data about one particular route would not be useful to devices other than the one that requested it. If all the devices were "stealing" the individual route information,

their constrained memory would quickly become overwhelmed. This further points to no desire of Behr et al. to look for ways to secure transmissions, and would discourage one of average skill in the art from doing so. In fact, the limited resources of the remote devices may be overwhelmed by encryption responsibilities if one were to even try to implement them. Thus, there is also no reasonable expectation of success in attempting to make the combination.

Examiner's Answer also refers to Hornbuckle teaching the use of an encryption key in downloading software packages so that they will only run on the particular target device "having an encryption key corresponding to the encryption key employed by the host when the software was encrypted [pg 21 lines 15-19]. ... Official Notice is taken that distribution of the needed key can be provided by either party." Page 5. First, it should be noted that claims 25-30 provide a key code from the GPS unit, and then decode navigation data using a unique software key. Thus, the teaching attributed to Hornbuckle does not appear to be relevant. The Official Notice also does not appear to be relevant, but is traversed in any event. The key code that is transmitted is not used in the decryption. The claims clearly states that the unique software key, which is not the same as the key code, is what is used.

Examiner's Answer (first full paragraph of Page 6) indicates that "Ahrens et al also points out that his transmitted GPS updating methods can also be used for other types of software, including PC software and computer game software. This strengthens examiner's argument that one of ordinary skill would be motivated to use Hornbuckle's encryption techniques when transmitting software; secure transmission of software is critical, regardless of the software's ultimate functionality." This assertion is respectfully traversed. As indicated in the original brief, Ahrens et al. "reads the media ID and verify that it corresponds to this customer." Col. 20, lines 24-25. The data transferred is not encrypted, and the ID is certainly not used to do any encrypting. Further, the Examiner's statement that "secure transmission of software is critical" is not applicable to Behr et al., as described above, and therefore, does not strengthen the Examiner's argument regarding the motivation to combine Hornbuckle with Behr et al.

The Examiner is asserting an unduly broad interpretation of the claim language "request including payment authorization information" on Page for of Examiner's Reply to include any type of information that is associated with authorization of payment, and then indicates that a

request for updated navigation information includes “payment authorization information and/or permission for charging payments in that they at least identify a subscriber and are associated with billing function(s).”

Applicant maintains that payment authorization information is defined in the application as an actual method of payment, such as credit card information or means of electronic payment as indicated on page 8, lines 3-10. It is not merely billing and audit information as described in Behr et al. at col. 14, line 3. Behr et al. simply does not teach charging payments on receipt of the request. At best, it only allows billing. Clearly, authorizing a payment is not the same, even when given its plain ordinary meaning.

In the Examiner’s response to arguments section of Examiner’s Reply, it is indicated that the language, “payment authorization information” is broadly and reasonably interpreted using the plain and ordinary meaning of the language. This is respectfully traversed. A quick internet search on the term “payment authorization information” reveal hits that relate to credit card payment authorization, demand draft payment authorization, direct payment authorization, third party authorization for payment, how to complete a payment authorization online, and other forms of actually paying a bill. The phrase clearly does not ordinarily mean “please send a bill” as appears to be asserted by the Examiner as the meaning of the language. The Random House Compact Unabridged dictionary describes authorization as 1. the act of authorizing, and describes authorize as 1. to give authority or official power to; empower; to authorize an employee to sign purchase orders. Again, this clearly imputes more than just sending a bill, but the actual authorization for payment to occur. Copies of these citations are provided in Appendix A to this Reply Brief.

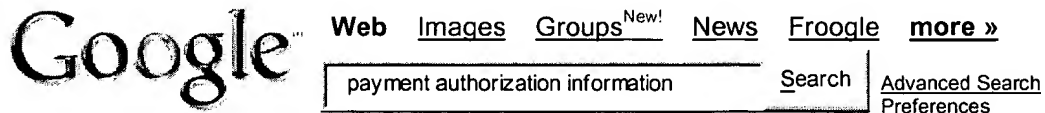
The response to arguments section also indicates that a Behr et al. GPS user may desire privacy for his selected route details/updates. There is no support for this statement in Behr et al. The statements by Applicant that Behr et al. expresses no need for encryption of the downloaded portions of routes is fully supported by reference to the specification of Behr et al.

For the reasons provided above, appellants submit that the Examiner's rejections of claims 25-30 are erroneous. Therefore, appellants request reversal of those rejections and allowance of claims 25-30.

## Appendix A

Internet Search on "payment authorization information"

First 10 hits.



**Web** Results 1 - 10 of about 3,210,000 for payment authorization information. (0.19 seconds)

**[PDF] CONSENT FOR TREATMENT & RELEASE OF INFORMATION AND PAYMENT**

...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... C:\Documents and Settings\arun\Local Settings\Temp\Patient Demographics.doc4 **CONSENT FOR TREATMENT & RELEASE OF INFORMATION AND PAYMENT AUTHORIZATION ...**

[www.painnet.com/html/forms/Patient%20Demographics.pdf](http://www.painnet.com/html/forms/Patient%20Demographics.pdf) - [Similar pages](#)

**Photoplot Store - Credit Card Payment Authorization - Part 1**

... PLEASE READ THIS: Upon making your first purchase, and before we attempt to obtain **authorization** for **payment** using the credit card **information** that you have ...

[www.photoplotstore.com/customer\\_access/ Credit\\_Card\\_Payment\\_Authorization\\_Form.html](http://www.photoplotstore.com/customer_access/Credit_Card_Payment_Authorization_Form.html) - 11k -

[Cached](#) - [Similar pages](#)

**Photoplot Store - Demand Draft Payment Authorization**

... This **authorization** shall remain in effect until written notice is received to cancel it. Once we receive your E-Check **payment information**, we will print it out ...

[www.photoplotstore.com/customer\\_access/ Demand\\_Draft\\_Payment\\_Authorization\\_Form.html](http://www.photoplotstore.com/customer_access/Demand_Draft_Payment_Authorization_Form.html) - 5k -

[Cached](#) - [Similar pages](#)

**[PDF] Direct Payment Authorization**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... Direct Pay **Authorization Information** ... You are eligible for direct **payment** if you: • go on a leave of absence without pay; • take temporary disability leave ...

[https://.../pdf/ ANABGPAAKKGG\\_DirectPayment.pdf](https://.../pdf/ANABGPAAKKGG_DirectPayment.pdf) - [Similar pages](#)

**Third Party Authorization for Payment**

Hennepin Technical College **Authorization for Payment**. A member of Minnesota State Colleges and Universities. ... 1. Student **Information** ...

[www.hennepintech.edu/students/tuition/tp-authorize.htm](http://www.hennepintech.edu/students/tuition/tp-authorize.htm) - 13k - [Cached](#) - [Similar pages](#)

**[PDF] PAYMENT AUTHORIZATION INFORMATION FOR HONORARIA Requested by**

...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... Hampshire **PAYMENT AUTHORIZATION INFORMATION FOR HONORARIA Requested by: Print Name and Title Signature Date Amount of Payment: Recipient** ...

[www.plymouth.edu/purchase/Forms/honorarium.pdf](http://www.plymouth.edu/purchase/Forms/honorarium.pdf) - [Similar pages](#)

**UCSD Blink: How to Complete a Payment Authorization Online**

... 12, Enter the accounting **information**. ... Note: The amount of the **payment**

**authorization** will display once you have submitted the page. ...

blink-prod.ucsd.edu/Blink/External/ Topics/How\_To/0,1260,4296,00.html - 39k - [Cached](#) - [Similar pages](#)

**Payment Authorization Form Now Available**

Please download and attach the **payment authorization** form to all future orders, registrations or ... office DOES NOT keep any member credit card **information** on file ...

www.alpacaregistry.net/index/creditcardauthform.htm - 8k - [Cached](#) - [Similar pages](#)

**[PDF] Credit Card Payment Authorization Form**

File Format: PDF/Adobe Acrobat

... SOLUTIONS Credit Card **Payment Authorization** Form NEW p UPDATE p CANCEL p COMPLETE ALL FOUR STEPS AND FIELDS STEP 1: Fannie Mae Account **Information** ...

www.efanniemae.com/singlefamily/ pdf/credit\_card\_ **authorization** \_form.pdf - [Similar pages](#)

**[PDF] ACH DIRECT PAYMENT AUTHORIZATION AGREEMENT Receiving Financial ...**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

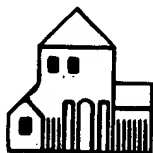
Page 1. ACH DIRECT **PAYMENT AUTHORIZATION** AGREEMENT Please ... account. Check off all applicable boxes and provide all requested **information**. ...

www.direct.com/onlineserv/ach\_ form.pdf - [Similar pages](#)



# RANDOM HOUSE COMPACT UNABRIDGED DICTIONARY

Special Second Edition



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around the Bay of Bengal and consisting principally of Vietnamese, Khmer, Mon, Khasi, Nicobarese, and the Munda languages. —adj. 2. of or pertaining to Austronesia. [1920-25; AUSTRON- + ASIATIC]

**Austronesia** (ô'strô nê'shə, -shə), *n.* the islands of the central and S Pacific. [AUSTRON- + Gk nês(os) island] —*adj.* 1. of or pertaining to Austronesia; Malayo-Polynesian. [1900-05; AUSTRON- + ASIATIC]

**Austronesian** (ô'strô nê'shən, -shən), *n.* 1. Also called **Malayo-Polynesian**, a family of languages spoken in the Malay Peninsula, Indonesia, the Philippines, Vietnam, Taiwan, Madagascar, and Oceania. —adj. 2. of or pertaining to Austronesia or the Austronesian family of languages; Malayo-Polynesian. [1900-05; AUSTRON- + ASIATIC]

**Austro-Prussian War** (ô'strô prush'ən), the war (1866) in which Prussia, Italy, and some minor German states opposed Austria, Saxony, Hanover, and the states of southern Germany. Also called **Seven Weeks' War**.

**aut-**, var. of **auto-** before a vowel: autocoid.

**autacoid** (ô'tă kôid'), *n.* Physiol. any physiologically active internal secretion, esp. one of uncertain classification, as histamine or prostaglandin. [1910-15; AUT- + Gk âk(os) remedy + -oid] —**autacoidal**, *adj.*

**autarch** (ô'tărk), *n.* an absolute ruler; autocrat; tyrant. [1860-65; < Gk autarchos, *n.* use of autarchos, autocratic, equiv. to aut- + -archos -ARCH]

**autarchy** (ô'tărk kē), *n.* pl. -chies. 1. absolute sovereignty. 2. an autocratic government. 3. autarky. [1655-65; < Gk autarchia self-rule. See AUT- + -ARCHY]

**autarchic**, **autarchical**, *adj.* —**autarchically**, *adv.* —**autarchist**, *n.*

**autarky** (ô'tărk kē), *n.* pl. -kies. 1. the condition of self-sufficiency, esp. economic, as applied to a nation. 2. a national policy of economic independence. Also, **autarky**. [1610-20; < Gk autarkia, equiv. to aut- + -arkē suffice + -ia -IA] —**autarkic**, **autarkical**, *adj.* —**autarkically**, *adv.* —**autarkist**, *n.*

**aut Caesar**, **aut nihil** (out kă'săr out nî'hîl; Eng. ô'tă'săr ô't nî'hîl), Latin. either a Caesar or nothing; all or nothing.

**autecism** (ô'tă'sis əm), *n.* autoecism. —**autecious** (ô'tă'shəs), *adj.* —**auteciously**, *adv.* —**auteciousness**, *n.*

**autecology** (ô'tă kôl'ə jē), *n.* a branch of ecology dealing with the individual organism or species in relation to its environment. Cf. **synecology**. [1905-10; AUT- + ecology] —**autecologic** (ô'tă kôl'ə jēk, -kē), *adj.* —**autecologically**, *adv.* —**autecologist**, *n.*

**Auteuill** (ô'tă'y), *n.* a former town, now part of Paris, France: noted for residences of Boileau, Talleyrand, Molière, La Fontaine, and other eminent people.

**auteur** (ô'tăr; Fr. ô'tœr), *n.* pl. **auteurs** (ô'tărz; Fr. ô'tœrz), a filmmaker whose individual style and complete control over all elements of production give a film its personal and unique stamp. [1960-65; < F. lit., author, originator < L. auctor. See AUTHOR] —**auteurist**, *n.* —**auteurist**, *adj.*, *n.*

**author's theory**, (in film criticism) a theory that the director is the chief creator of a film and gives it an individual style that is evident in all aspects of the finished product. [1960-65]

**auth-**, 1. authentic. 2. author. 3. authority. 4. authorized.

**authentic** (ô'then'tik), *adj.* 1. not false or copied; genuine; real: an authentic antique. 2. having the origin supported by unquestionable evidence; authenticated; verified: an authentic document of the Middle Ages. 3. an authentic work of the old master. 4. entitled to acceptance or belief because of agreement with known facts or experience; reliable; trustworthy: an authentic report on poverty in Africa. 5. Law: executed with all due formalities: an authentic deed. 6. Music: a. (of a church mode) having a range extending from the final to the octave above. Cf. **plagal**. b. (of a cadence) consisting of a dominant harmony followed by a tonic. 6. Obs. authoritative. [1300-50; < LL authenticus < Gk authentikos original, primary, at first hand, equiv. to authēn(tēs) one who does things himself (aut- + hēn(tēs) doer) + -ikos -IC; r. ME autentik (< AF) < ML authenticus] —**authentically**, *adv.*

**Authentic**, 1-3. AUTHENTIC, GENUINE, REAL, VERITABLE share the sense of actuality and lack of falsehood or misrepresentation. AUTHENTIC carries a connotation of authoritative certification that an object is what it is claimed to be: an authentic Rembrandt sketch. GENUINE refers to objects or persons having the characteristics or source claimed or implied: a genuine ivory carving. REAL, the most general of these terms, refers to innate or actual—as opposed to ostensible—nature or character: In real life, plans often miscarry. A real diamond will cut glass. VERITABLE, derived from the Latin word for truth, suggests the general truthfulness but not necessarily the literal or strict correspondence with reality of that which it describes; it is often used metaphorically: a veritable wizard of finance.

**authenticity** (ô'then'ti kē), *n.* 1. the quality of being authentic; genuineness. [1650-60; AUTHENTIC + -ITY]

**authenticity** (ô'then'ti kē), *n.* 1. a person or thing that authenticates. 2. Cryptography, a code used to authenticate a previously transmitted code. [1860-65; AUTHENTIC + -ITY]

**authenticity** (ô'then'ti kē), *n.* 1. the quality of being authentic; genuineness. [1650-60; AUTHENTIC + -ITY]

**authenticity** (ô'then'ti kē), *n.* 1. the quality of being authentic; genuineness. [1650-60; AUTHENTIC + -ITY]

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**authigenic** (ô'thi jên'ik), *adj.* Geol. (of a constituent of a rock) formed in the rock where it is found. Cf. **alloctogenic** (def. 1). [1885-90; < G Authigen < Gk authigenēs native to a specific place (authi there + -genēs born) + -IC; see GENIC]

**author** (ô'ther), *n.* 1. a person who writes a novel, poem, essay, etc.; the composer of a literary work, as distinguished from a compiler, translator, editor, or copyist. 2. the literary production or productions of a writer: to find a passage in an author. 3. the maker of anything; creator; originator: the author of a new tax plan. —*u.t.* 4. to write; be the author of: He authored a history of the Civil War. 5. to originate; create a design for: She authored a new system for teaching chemistry. [1250-1300; earlier auct(h)or < L auctor writer, progenitor, equiv. to aug(ere) to increase, AUGMENT + -tor -TOR; r. ME auct(h)or < AF, for OF auctor < L, as above] —**authorial** (ô'thôr'ē əl, ô'thôr'ē), *adj.* —**authorless**, *adj.*

**author catalog**, *Library Science*, a catalog whose entries are listed by author, editor, compiler, translator, or other party considered to have responsibility for the creation or assembly of the work specified. [1910-15]

**authorless** (ô'ther'is), *n.* a woman who is an author. [1485-95; AUTHOR + -less]

**Usage**, See **ess**.

**authoritarian** (ô'thôr'ī tăr'ē ən, ô'thôr'ē), *adj.* 1. favoring complete obedience or subjection to authority as opposed to individual freedom: authoritarian principles; authoritarian attitudes. 2. of or pertaining to a governmental or political system, principle, or practice in which individual freedom is held as completely subordinate to the power or authority of the state, centered either in one person or a small group that is not constitutionally accountable to the people. 3. exercising complete or almost complete control over the will of another or of others: an authoritarian parent. —*n.* 4. a person who favors or acts according to authoritarian principles. [1875-80; AUTHORITY + -ARIAN] —**authoritarianism**, *n.*

**authoritative** (ô'thôr'ī tăr'ē ətīv, ô'thôr'ē), *adj.* 1. having due authority; having the sanction or weight of authority: an authoritative opinion. 2. substantiated or supported by documentary evidence and accepted by most authorities in a field: an authoritative edition of Shakespeare; an authoritative treatment of a subject. 3. having an air of authority; accustomed to exercising authority; positive; peremptory; dictatorial: said with an authoritative air. [1595-1605; AUTHORITY + -ATIVE] —**authoritatively**, *adv.* —**authoritativeness**, *n.*

**Syn.** 1. official. 3. dogmatic, authoritarian.

**authoritative** (ô'thôr'ī tăr'ē ətīv, ô'thôr'ē), *n.* pl. -ties. 1. the power to determine, adjudicate, or otherwise settle issues or disputes; jurisdiction; the right to control, command, or determine. 2. a power or right delegated or given; authorization: Who has the authority to grant permission? 3. a person or body of persons in whom authority is vested, as a governmental agency. 4. Usually, authorities, persons having the legal power to make and enforce the law; government: They finally persuaded the authorities that they were not involved in espionage. 5. an accepted source of information, advice, etc. 6. a quotation or citation from such a source. 7. an expert on a subject: He is an authority on baseball. 8. persuasive force; conviction: She spoke with authority. 9. a statute, court rule, or judicial decision that establishes a rule or principle of law; a ruling. 10. right to respect or acceptance of one's word, command, thought, etc.; commanding influence: the authority of a parent; the authority of a great writer. 11. mastery in execution or performance, as of a work of art or literature or a piece of music. 12. a warrant for action; justification. 13. testimony; witness. [1200-50; earlier auct(h)oritas < L auctoritās; r. ME auctorite < OF < L. See AUTHOR, -ITY]

**Syn.** 1. rule, power, sway. AUTHORITY, CONTROL, INFLUENCE denote a power or right to direct the actions or thoughts of others. AUTHORITY is a power or right, usually because of rank or office, to issue commands and to punish for violations: to have authority over subordinates. CONTROL is either power or influence applied to the complete and successful direction or manipulation of persons or things: to be in control of a project. INFLUENCE is a personal and unofficial power derived from deference of others to one's character, ability, or station; it may be exerted unconsciously or may operate through persuasion: to have influence over one's friends. 3. sovereign, arbiter.

**author's control**, *Library Science*, the establishment and maintenance of consistent forms of terms, as of names, subjects, and titles, to be used as headings in bibliographic records.

**author's figure**, a person whose real or apparent authority over others inspires or demands obedience and emulation: Parents, teachers, and police officers are traditional authority figures for children.

**author's file**, *Library Science*, a file, either on cards or in machine-readable format, in which decisions involving bibliographic records, particularly for form of entry, are recorded to establish a precedent or rule for subsequent decisions and to provide for consistency of entries. [1975-80]

**authorization** (ô'ther ə ză'shən), *n.* 1. the act of authorizing. 2. permission or power granted by an authority; sanction. 3. a legislative act authorizing money to be spent for government programs that specifies a maximum spending level without provision for actual funds. [1600-10; AUTHORIZE + -ATION]

**authorize** (ô'ther'iz), *v.t.*, *-ized*, *-izing*. 1. to give authority or official power to; empower: to authorize an employee to sign purchase orders. 2. to give authority for; formally sanction (an act or proceeding): Congress authorized the new tax on tobacco. 3. to establish by authority or usage: an arrangement long authorized by etiquette books. 4. to afford a ground for; warrant; justify. Also, esp. Brit., **authorise**. [1350-1400; earlier

auctorize < ML auctōrizāre; r. ME autorisen < MF autoriser < ML. See AUTHOR, -IZE] —**authorial**, *adj.* —**authorial**, *adj.* —**authorial**, *adj.*

**authorized** (ô'ther'izd), *adj.* 1. given or endowed with authority: an authorized agent. 2. duly sanctioned. [AUTHORIZE + -ED]

**authorized capital**, the aggregate par value or the total subscription price of all equity shares of a corporation authorized to be issued under its charter. [1910-15]

**Authorized Version**, an English version of the Bible prepared in England under James I and published in 1611. Also called **King James Version**.

**authors** (ô'therz), *n.* (used with a singular v.) a card game for two or more persons that is played with a 52-card pack, the object being to take the largest number of tricks consisting of four cards of the same denomination. [1865-70; Amer.; pl. of AUTHOR]

**author's alteration**, a correction or change made in typeset copy that is not a correction of an error introduced by the compositor. Abb.: AA, A.A., a.a., aa Cf. **printer's error**.

**authorship** (ô'ther ship'), *n.* 1. origin, esp. with reference to an author, creator, producer, etc., of a work: establishing the authorship of early medieval manuscripts. 2. the occupation or career of writing books, articles, etc. [1700-10; AUTHOR + -SHIP]

**Auth. Ver.**, Authorized Version (of the Bible).

**autism** (ô'tiz əm), *n.* 1. Psychiatry, a pervasive developmental disorder of children, characterized by impaired communication, excessive rigidity, and emotional detachment. 2. a tendency to view life in terms of one's own needs and desires. [1910-15; AUT- + -ISM] —**autistic**, *n.* —**autistic** (ô'tis'tik), *adj.* —**autistically**, *adv.*

**auto** (ô'tô), *n.*, pl. -tos. automobile. [1895-1900, Amer.; by shortening]

**auto-**, a combining form meaning "self," "same," "spontaneous," used in the formation of compound words: autograph. Also, esp. before a vowel, **auto-** (< Gk, comb. form of autos self)

**auto-**, a combining form representing automobile in compound words: autocade. [see AUTO]

**auto-**, a combining form representing automatic in compound words: autocalm; autofeed; autofocus. Sometimes also taken as an adjective: auto enlarger; auto stop control.

**auto-**, 1. automatic. 2. automobile. 3. automotive.

**autoanalysis** (ô'tô ə năl'ə sis), *n.* 1. Psychoanal. self-analysis. 2. Chem. analysis by an autoanalyzer. [1890-95; AUTO- + ANALYSIS]

**autoanalyzer** (ô'tô ə năl'ə zəz), *n.* a device that performs chemical analysis automatically. [AUTO- + ANALYZER]

**autoantibody** (ô'tô ən'ti bôd'ē, -an'tē), *n.*, pl. -bodies. Immunol. an antibody that an organism produces against any of its own tissues, cells, or cell components. [1905-10; AUTO- + ANTIBODY]

**autoantigen** (ô'tô ən'ti jən, -jən'), *n.* Immunol. an antigen of one's own cells or cell products. Also called **self-antigen**. [AUTO- + ANTIGEN]

**auto-bahn** (ô'tă bän; Ger. ou'tô bän'), *n.*, pl. -bahns, -bahn-en (-bä'nən). (in Germany and Austria) a superhighway; expressway. [1935-40; < G, equiv. to Auto AUTO + Bahn road, way]

**auto-bio** (ô'tô bi'ô), *n.*, pl. -bios. Informal. autobiography. [by shortening]

**auto-biog** (ô'tô bi'ôg), *n.* Informal. autobiography. [by shortening]

**auto-biographical** (ô'tô bi'ôgrə'fī kəl, ô'tô-), *adj.* marked by or dealing with one's own experiences or life history; or in the manner of an autobiography: autobiographical material; an autobiographical novel. Also, **auto-biographic**. [1820-30; AUTO- + BIOGRAPHICAL] —**auto-biographically**, *adv.*

**auto-biography** (ô'tô bi'ôgrə'fē, -bē-, ô'tô-), *n.*, pl. -phies. a history of a person's life written or told by that person. [1790-1800; AUTO- + BIOGRAPHY] —**auto-biographer**, *n.*

**Autobiography of Alice B. Toklas**, *The* (tok'lās, tōk'lās), a memoir (1933) by Gertrude Stein.

**auto-bus** (ô'tă bus'), *n.*, pl. -bus-es, -bus-es. bus' (def. 1). [1895-1900, Amer.; AUTO- + BUS]

**auto-cade** (ô'tă kăd'), *n.* a procession or parade of automobiles; motorcade. [AUTO- + -CADE]

**auto-catalysis** (ô'tô kə tal'ə sis), *n.*, pl. -ses (-sēz). Chem., Biochem. catalysis caused by a catalytic agent formed during a reaction. [1890-95; AUTO- + CATALYSIS] —**auto-catalytic** (ô'tô kə tal'ə tīk), *adj.* —**auto-catalytically**, *adv.*

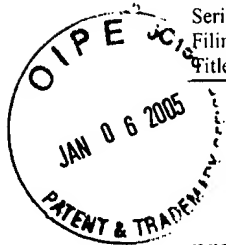
**auto-catharsis** (ô'tô kə thăr'sis), *n.* Psychiatry. a therapeutic process designed to free unconscious disturbances by having the patient write about his or her experiences, impressions, etc. [AUTO- + CATHARSIS]

**auto-cephalous** (ô'tă səf'ə ləs), *adj.* Eastern Ch. 1. (of a church) having its own head or chief bishop, though in communion with other Orthodox churches. 2. (of a bishop) subordinate to no superior authority; self-governing. [1860-65; < LGk autokephalos having its own head. See AUTO- + CEPHALOUS]

**auto-cephaly** (ô'tă səf'ə lē), *n.* the state of being autocephalous. [AUTOCEPHAL(ous) + -Y]

**auto-chrome** (ô'tă krôm'), *n.* Photog. a material once used for color photography, consisting of a photo-

CONCISE PRONUNCIATION KEY: act, câpe, däre, pärt; set, equal, if, ice; ox, över, öder, ök, öök, ööt, out; up, ürge, child; sing, shoe; thin, that; zh as in treasure. e = a in alone, e as in system, i as in easily, o as in gallop, u as in circus; \* as in fire (fī'r), hour (ou'r). l and n can serve as syllabic consonants, as in cradle (krädl'), and button (but'n). See the full key inside the front cover.



Conclusion

The Examiner is invited to telephone Applicant's attorney at 612-373-6972 to facilitate prosecution of this application.

If necessary, please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

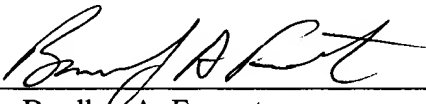
Respectfully submitted,

KELLY E. DILLARD ET AL.

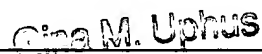
By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402  
612-373-6972

Date 12/30/2004

By   
Bradley A. Forrest  
Reg. No. 30,837

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Appeal Brief Patents, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 30 day of December, 2004.

  
Name

  
Signature